Roland®

Studio Package Pro

Owner's manual

In order to feel assured that you have gained a good grasp of every feature provided by your new unit, Owner's manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

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Contents

Contents 2

IMPORTANT NOTES 4

Introduction 5

Studio Package Pro 5
About the XSKey 5
Main features of Studio Package Pro 5

Setting up Studio Package Pro 6

Step 1: Installing the RPC-1 6
Step 2: Connecting your equipment 6
Step 3: Driver installation 7
Windows 98 8
Windows Me 9
Windows 2000 10
Windows XP Home / Professional 11
Mac OS 8.6 or later (excluding OS X) 12
Step 4: Making RPC-1 settings 14
RPC-1 control panel settings (Monitor mixer / patchbay settings) 14
Step 5: Installing Logic RPC Pro 15
Windows 15
Macintosh 15
Step 6: Logic RPC Pro settings 16
Audio driver settings 16
Step 7: Installing the demo song 17

Quick start 18

Listening to the demo song 18
Let's try operating Logic RPC Pro 19
Transport 19
CH ASSIGN 19
Faders 1--12 19
STATUS buttons 19
CH SELECT buttons 21
PAN 1--12 21
EQ / SEND button 21
PLUG-IN button 21
MARKER button 22
SHORTCUT button 22
SCREEN SET button 22
Record and play back a guitar performance 22
Apply EQ (equalizer) to a track 23
Inserting EQ 23
Operate the EQ 23
Using surround panning 23
Connect and play a MIDI sound module / MIDI keyboard 24
Selecting MIDI tracks in the Arrange window 24
Select a sound / patch (transmit a program change) 24
Play your keyboard to hear the sound 25
Recording your performance (MIDI real-time recording) 25
Playing back the performance data 25

Advanced uses 26

Using the SI-24's DIGITAL IN 26
Connect your digital device 26
Make settings on the SI-24 and in Logic. 26
Change the RPC-1 settings 26
Recording audio from DIGITAL IN to Logic RPC Pro 27
Automix in Logic RPC Pro 27
Make automix settings in Logic RPC Pro. 27
Record fader / pan movements 27
Play back the fader / pan movements 27
Writing a mix to an audio file 28
Specify the region that will be written as an audio file 28
Make settings for writing the audio 28
Begin writing the audio 28
Applying an external effect 29
Connect the external effects processor to the SI-24 29
Set a Logic RPC Pro bus as the external effect send 29
Send the signal from each track to the external effect 29
Using software synthesizers 30
Inserting a software synthesizer 30
Connect a MIDI keyboard to the SI-24 and play the software synthesizer 30

Index 31

IMPORTANT NOTES

- Unfortunately, it may be impossible to restore the contents of data that was stored on a storage device once it has been lost. Roland Corporation assumes no liability concerning such loss of data.

- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late at night).

- Unauthorized duplication, reproduction, hiring, and lending prohibited.

- Avoid touching or scratching the shiny underside (encoded surface) of the disc. Damaged or dirty CD-ROM discs may not be read properly. Keep your discs clean using a commercially available CD cleaner.

- DO NOT play a CD-ROM disc on a conventional audio CD player. The resulting sound may be of a level that could cause permanent hearing loss. Damage to speakers or other system components may result.

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* VST and ASIO are trademarks of Steinberg Media Technologies AG.
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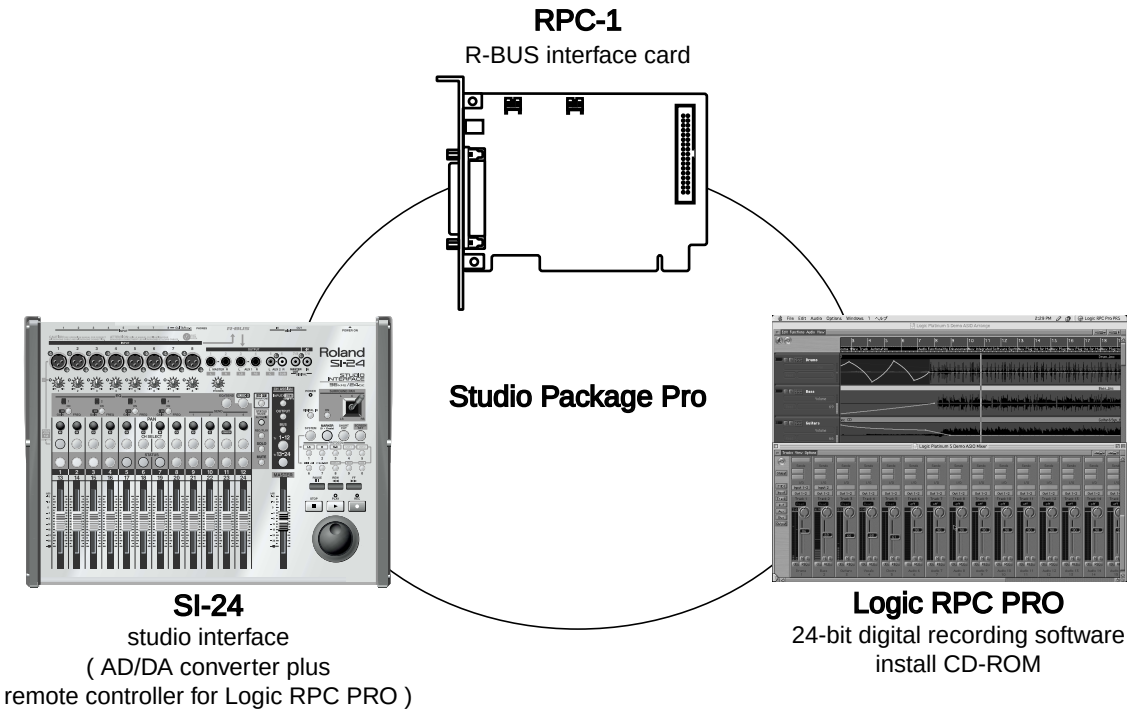
Studio Package Pro

Thank you, and congratulations on your choice of the Roland Studio Package Pro. Studio Package Pro is a package containing three products: the RPC-1, the SI-24, and Logic RPC Pro. When used with your computer, this package delivers a 24-bit digital recording environment.
Before using the product, you should check the items in box according to the owner's manual of each product. (RPC-1 owner's manual P.5 “Check the included items”, SI-24 owner's manual P.8 “Check the contents of the package”, Logic RPC Pro owner's manual related pages) Then read this manual to set up your product according to “Setting up Studio Package Pro” (p. 6).

* *In the interest of product improvement, the specifications and/or contents of this package are subject to change without prior notice.*



About the XSKey

In order to use Logic RPC Pro, you will need to attach the XSKey (included with Logic RPC Pro) to a USB port of your computer.

Main features of Studio Package Pro

- Send and receive 8-in / 8-out channels of 96 kHz 24-bit digital audio and one pair of MIDI connections, simply by connecting the RPC-1 and SI-24 via an R-BUS cable.
- Logic RPC Pro* allows up to 8 channels of simultaneous recording, 24 channels of simultaneous playback, and 8 channels of independent output.
- Use the SI-24 to remotely control the faders, pan, channel status, transport, screen sets, etc., of Logic RPC Pro.
- Use the SI-24 as a MIDI interface.

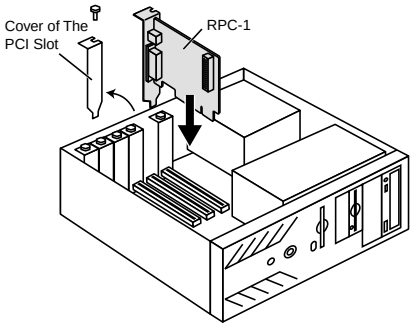
* *Logic RPC Pro is a product of Emagic Inc. The maximum number of simultaneous recording and playback channels in Logic RPC Pro will depend on the performance of your computer.*

Setting up Studio Package Pro

Step 1: Installing the RPC-1

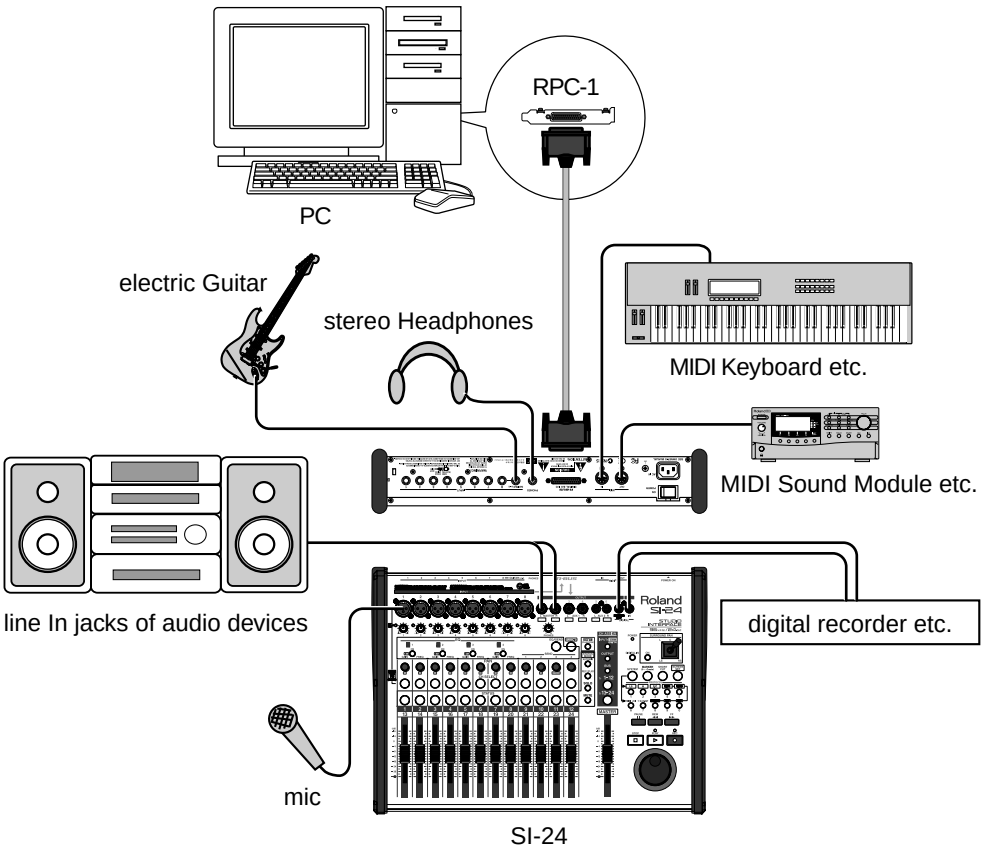
Install the RPC-1 into a PCI slot of your computer. Refer to the owner's manual of your computer, and read the section(s) with titles such as "Opening the chassis," "Installing a PCI card," or "Adding an expansion card." For details on PCI slots and PCI cards, refer to the manual of your computer.

1. Turn off the power of your computer, and unplug the power cable.
2. Remove the cover of your computer.
3. Remove the screw from the cover of a vacant PCI slot, and remove the slot cover. (Hold on to the screw that held the cover in place, since it will be used to fasten the RPC-1.)
4. Insert the RPC-1 into the PCI slot. When doing so, note that it is not possible to insert the RPC-1 if it is oriented incorrectly.
5. Using the screw that had fastened the cover, fasten the RPC-1 in place.
6. Reattach the cover of your computer.
7. Connect the power cable to your computer.

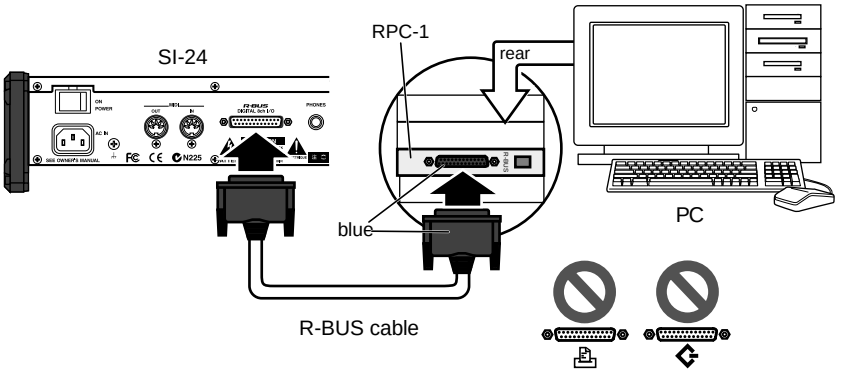


Step 2: Connecting your equipment

Turn off the power of your computer and the SI-24, and use the following procedure to connect each device.



1. Using the R-BUS cable included with the RPC-1, connect the SI-24 to the RPC-1.



NOTE Be careful not to connect the R-BUS connector to a printer port or SCSI port.

2. Connect your audio devices and/or headphones.

3. Connect MIDI and other devices as necessary.

For details on the signal flow when using the MIDI connectors of the SI-24, refer to "MIDI Ctrl: OFF" (p. 29) of the "SI-24 owner's manual."

NOTE If your MIDI file contains large amounts of system exclusive messages, the SI-24 may be unable to process the messages correctly.

NOTE MIDI IN / OUT channels 1 are used for remote control of Logic RPC Pro. If you use MIDI IN / OUT, please use channels 2--16.

When you turn on the power, turn each device on in the following order.

1. Computer
2. SI-24
3. Audio equipment

Step 3: Driver installation

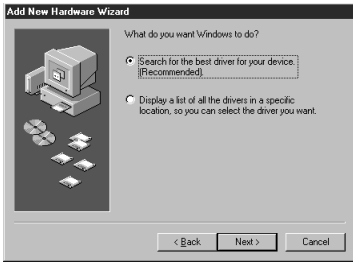
* *The explanations in this manual include illustrations that depict what should typically be shown by the display. Note, however, that your unit may incorporate a newer, enhanced version of the system (e.g., includes newer sounds), so what you actually see in the display may not always match what appears in the manual.*

Windows 98

1. After installing the RPC-1 in a PCI slot, start up your computer.
2. The RPC-1 will automatically be detected, and the “Add New Hardware Wizard” will start up. Click “Next.”

Add New Hardware Wizard
This wizard searches for new drivers for:
PCI Multimedia Audio Device
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

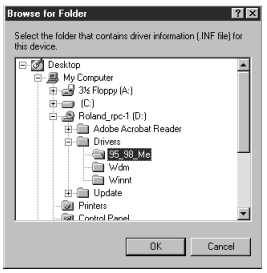
3. Insert the included “Drivers/Update CD-ROM” into your CD-ROM drive.
4. Choose “Search for the best driver for your device. (Recommended).” and click “Next.”


Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended)
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

5. Choose “Specify a location,” and click “Browse.”

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
Browse...
< Back
Next >
Cancel

6. On the CD-ROM, select the \Drivers\95_98_Me folder and click “OK.”



7. Click “Next,” and driver installation will begin.

Add New Hardware Wizard
Windows driver file search for the device:
Roland RPC-1
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
D:\DRIVERS\95_98_ME\MA_DELTA.INF
< Back
Next >
Cancel

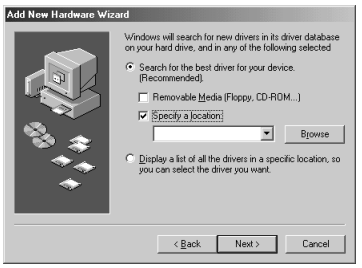
8. A message will appear, indicating that the driver installation has been completed. Click “Finish.” This completes the driver installation.

Windows Me

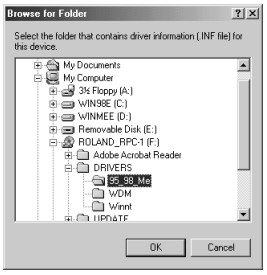
1. After installing the RPC-1 in a PCI slot, start up your computer.
2. The RPC-1 will automatically be detected, and the “Add New Hardware Wizard” will start up.
3. Insert the included “Drivers/Update CD-ROM” into your CD-ROM drive.
4. Choose “Specify the location of the driver (Advanced)” and click “Next.”

Add New Hardware Wizard
Windows has found the following new hardware:
PCI Multimedia Audio Device
Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next.
What would you like to do?
Automatic search for a better driver (Recommended)
Specify the location of the driver (Advanced)
< Back
Next >
Cancel

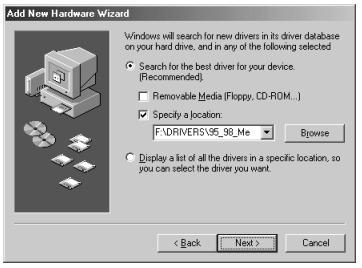
5. Choose “Specify a location” and click “Browse.”


Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected
Search for the best driver for your device. (Recommended).
Removable Media (Floppy, CD-ROM...)
Specify a location:
Browse
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

6. On the CD-ROM, select the \Drivers\95_98_Me folder and click “OK.”



7. Click “Next” and the search will begin.


Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected
Search for the best driver for your device. (Recommended).
Removable Media (Floppy, CD-ROM...)
Specify a location:
F:\DRIVERS\95_98_Me
Browse
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

8. Click “Next,” and driver installation will begin.

Add New Hardware Wizard
Windows driver file search for the device:
Roland RPC-1
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
F:\DRIVERS\95_98_ME\MA_DELTA.INF
< Back
Next >
Cancel

9. A message will appear, indicating that the driver installation has been completed. Click “Finish.” This completes the driver installation.

Windows 2000

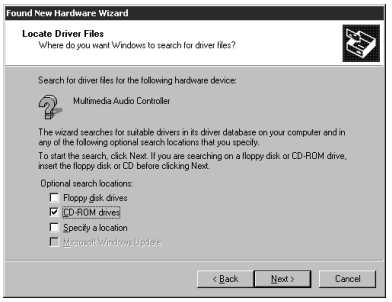
1. After installing the RPC-1 into a PCI slot, start up your computer.
2. The RPC-1 will automatically be detected, and the “Found New Hardware Wizard” will start up. Click “Next.”

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install a device driver for a hardware device.
To continue, click Next.
< Back
Next >
Cancel

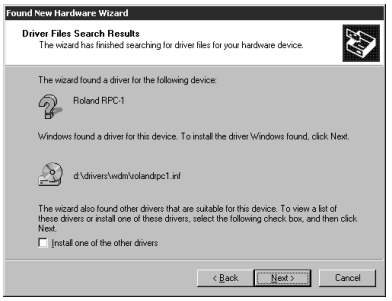
3. Insert the included “Drivers/Update CD-ROM” into your CD-ROM drive.
4. Choose “Search for a suitable driver for my device (Recommended)” and click “Next.”

Found New Hardware Wizard
Install Hardware Device Drivers
A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device:
Multimedia Audio Controller
A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver
< Back
Next >
Cancel

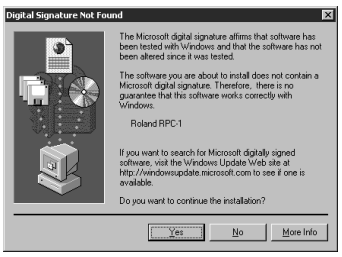
5. In “Optional search locations,” choose “CD-ROM drives” and click “Next.”


Found New Hardware Wizard
Locate Driver Files
Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
Multimedia Audio Controller
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< Back
Next >
Cancel

6. A message will appear, indicating that the RPC-1 driver was found. Click “Next.”


Found New Hardware Wizard
Driver Files Search Results
The wizard has finished searching for driver files for your hardware device.
The wizard found a driver for the following device:
Roland RPC-1
Windows found a driver for this device. To install the driver Windows found, click Next.
d:\drivers\wdm\rolandrpc1.inf
The wizard also found other drivers that are suitable for this device. To view a list of these drivers or install one of these drivers, select the following check box, and then click Next.
Install one of the other drivers
< Back
Next >
Cancel

7. A warning regarding the “Microsoft digital signature” will appear. This is not a problem, so simply click “Yes.” Installation will begin automatically.


Digital Signature Not Found
The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.
The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.
Roland RPC-1
If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
Do you want to continue the installation?
Yes
No
More Info

8. A message will appear, indicating that the driver installation has been completed. Click “Finish.” This completes the driver installation.

Windows XP Home/Professional

1. After installing the RPC-1 into a PCI slot, start up your computer.
2. The RPC-1 will automatically be detected, and the “Found New Hardware Wizard” will start up.
3. Insert the included “Drivers/Update CD-ROM” into your CD-ROM drive.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
Multimedia Audio Controller
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

When you insert the CD-ROM, you may be asked whether to execute automatically. If so, click [Cancel].

ROLAND_RPC-1 (D:)
Windows can perform the same action each time you insert a disk or connect a device with this kind of file:
Music files
What do you want Windows to do?
Play using Windows Media Player
Open folder to view files using Windows Explorer
Take no action
Always do the selected action.
OK
Cancel

4. A warning regarding “Windows Logo testing” will appear. This is not a problem, so simply click “Continue Anyway.” Installation will begin automatically.

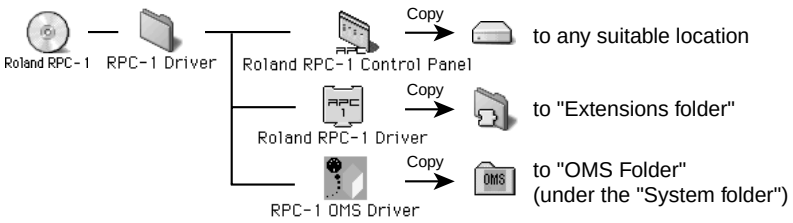
Hardware Installation
The software you are installing for this hardware:
Roland RPC-1
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

5. A message will appear, indicating that the driver installation has been completed. Click “Finish.” This completes the driver installation.

Mac OS 8.6 or later (excluding OS X)

1. Start up your computer.
2. Insert the “Drivers/Update” CD-ROM into your CD-ROM drive.
3. Open the CD-ROM, and from the “OMS2.3.8” folder, launch “Install OMS 2.3.8” to install OMS.Follow the instructions to restart your computer.

4. Copy the files as shown in the diagram at right.



5. Turn virtual memory “off.”
   - Open “ Apple menu” → “Control panel” → “Memory.”
   - Turn “Virtual memory” to “off.”
6. Restart your computer, and proceed to OMS settings.

OMS settings

For details on using OMS, refer to the PDF file within the “DRIVER / UPDATE CD-ROM.”

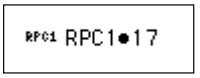
1. Start up “OMS Setup.”

   “OMS Setup” is located in the “Opcode” folder → “OMS Applications” folder.

2. The display will indicate “Create a New Studio Setup,” so click “OK.”
3. A window will appear, asking you to specify the port at which to search for a MIDI interface. Since in this case you will not be using either the Modem or Printer ports, click “Search” without checking either of these.

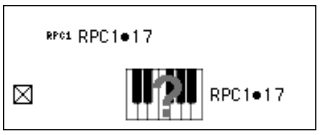
   If the SI-24’s MIDI IN is connected to a device (such as a keyboard) that transmits Active Sensing (FE) or Timing Clock (F8) messages, turn off the power of this device before you click “Search,” since this may cause OMS to hang up.

4. When the search has been completed, a list of the devices that were found will be displayed. Check whether the list includes “RPC1,” and click “OK.”

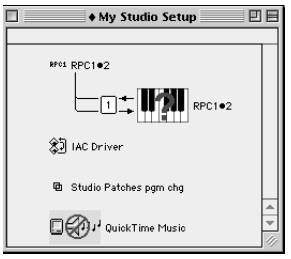


   If the list did not include “RPC1,” check whether “Roland RPC-1 driver” or “RPC-1 OMS driver” was installed correctly.

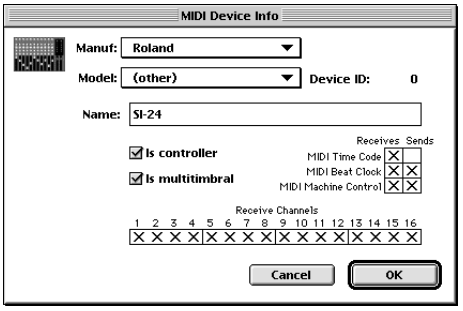
5. In the list of MIDI devices, check “RPC1” and click “OK.”
6. A dialog box for saving the setup will appear, so assign a name and save the setup.



7. The “My Studio Setup” window will appear, showing the current setup. Initially, a keyboard with a “?” symbol will be assigned. Double-click this, and “MIDI Device Info” will appear.

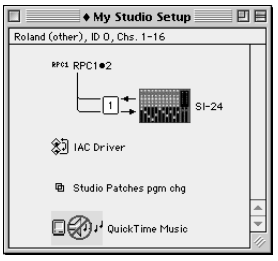


8. Make settings as shown in the diagram. To change an icon, double-click the icon. When you have finished making settings, click “OK.”



9. Make sure that this setup is the “current setup,” and then exit “OMS Setup.” If you are asked whether to save, save the setup.

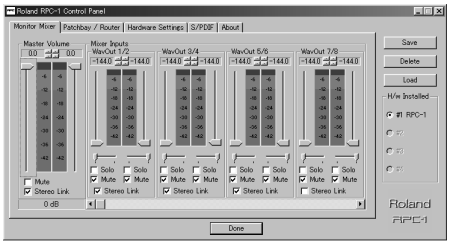
The “current setup” is the setup (out of possible multiple setups) that is currently valid. The “current setup” is indicated by a “ ◊ ” symbol in the title bar of the window. To make a setup the “current setup,” choose “Make Current” from the “File” menu.



Step 4: Making RPC-1 settings

RPC-1 control panel settings (Monitor mixer/patchbay settings)

1. Open the RPC-1 control panel.



Windows98/Me/2000:

Go to Start → Settings → Control Panel, and double-click "Roland RPC-1 H/W"

Windows XP:

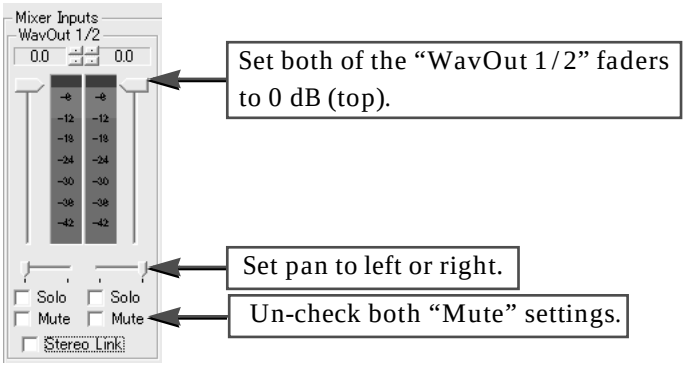
Go to Start → Control Panel, and double-click "Roland RPC-1 H/W" (If this is not displayed, click "Switch to classic view")

Macintosh:

Double-click the "Roland RPC-1 Control Panel" icon that you copied at the time of installation

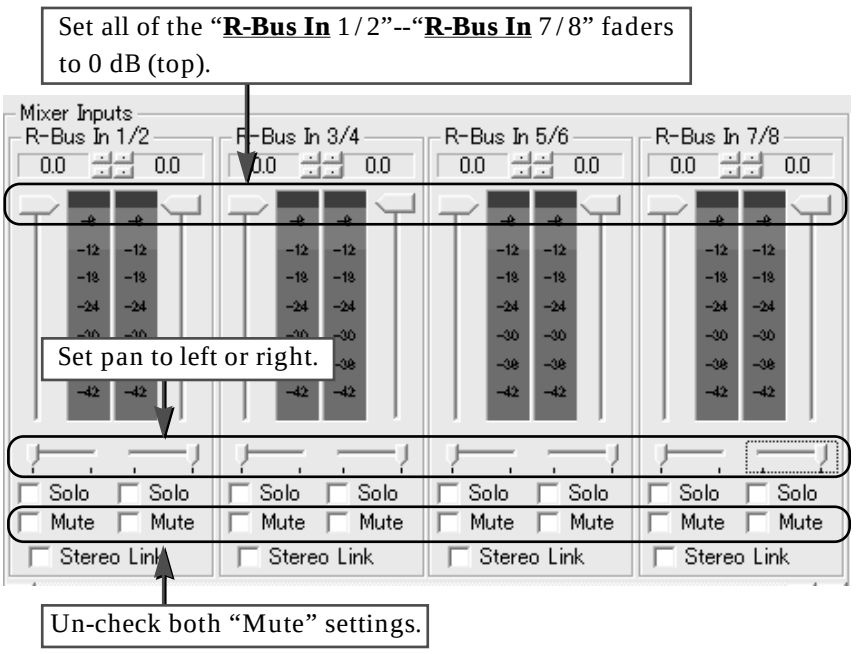
2. Click the "Monitor Mixer" tab.

3. Make settings as shown in the illustration.



4. Use the slide bar ( ) to scroll the window to the left so that you can see "R-Bus In 1/2"--"R-Bus In 7/8."

5. Make settings as shown in the illustration.



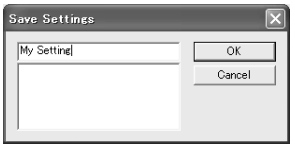
6. Click the “Patchbay/Router” tab.
7. As shown in the illustration, set the “R-Bus Out 1/2” source to “Monitor Mixer.”

8. Click the “Hardware Setting” tab.
9. Check “Disable ... Monitor Mixer and Patchbay/Router”

Disable Control of the Monitor Mixer and Patchbay/Router by Audio Applications
or
Asio/Easi Options
Disable audio app use of Monitor Mixer and Patchbay/Router
Disable mult

** The wording may differ according to the OS you are using.*

10. Click [Save] to assign suitable name to the settings, and then click [OK] to save them.



If for some reason the settings are changed, you can load the settings that you saved here. Click [Load] in the RPC-1 control panel to load the settings.

11. Click [Done] to close the RPC-1 control panel.

Step 5: Installing Logic RPC Pro

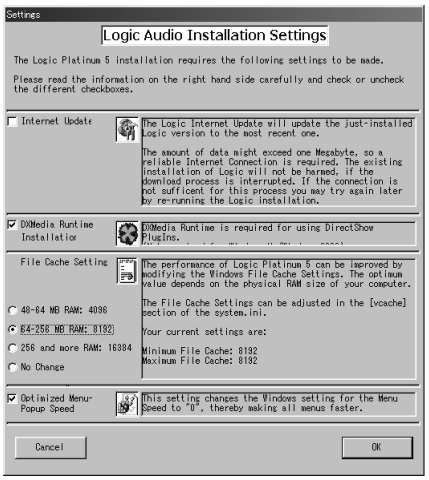
1. Insert the “Logic RPC Pro CD-ROM” into your CD-ROM drive.
2. A window will open. Run the installer.

   Windows: Double-click the Setup icon
   Macintosh: Double-click the Logic RPC Pro Installer icon

3. Perform the installation as directed by the installer.

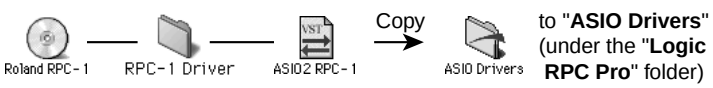
Windows

1. The Windows file cache setting window will appear during the installation. You can improve the performance of Logic RPC Pro by optimizing the file cache setting. Set this as appropriate for the amount of RAM installed in your computer.


Settings
Logic Audio Installation Settings
The Logic Platinum 5 installation requires the following settings to be made.
Please read the information on the right hand side carefully and check or uncheck the different checkboxes.
Internet Update
The Logic Internet Update will update the just-installed Logic version to the most recent one.
The amount of data might exceed one Megabyte, so a reliable Internet Connection is required. The existing installation of Logic will not be harmed, if the download process is interrupted. If the connection is not sufficent for this process you may try again later by re-running the Logic installation.
DXMedia Runtime Installation
DXMedia Runtime is required for using DirectShow Plugins.
File Cache Setting
The performance of Logic Platinum 5 can be improved by modifying the Windows File Cache Settings. The optimum value depends on the physical RAM size of your computer.
The File Cache Settings can be adjusted in the [vcache] section of the system.ini.
48-64 MB RAM: 4096
64-256 MB RAM: 8192
256 and more RAM: 16384
No Change
Your current settings are:
Minimum File Cache: 8192
Maximum File Cache: 8192
Optimized Menu-Popup Speed
This setting changes the Windows setting for the Menu Speed to "0", thereby making all menus faster.
Cancel
OK

Macintosh

1. Insert the “Drivers/Update” CD-ROM into your CD-ROM drive.
2. Copy the file as shown in the diagram at right.



to "**ASIO Drivers**" (under the "**Logic RPC Pro**" folder)

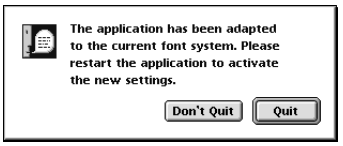
Step 6: Logic RPC Pro settings

Audio driver settings

1. Turn on the power of the SI-24.
2. Connect XSKey included in Logic RPC Pro to the USB port of your computer.
3. Start up Logic RPC Pro.

When you start up for the first time on the **Macintosh**, a dialog box will ask you to specify the font and whether to use OMS.

- In this window, select "Quit" to exit Logic RPC Pro. Then restart Logic RPC Pro.


The application has been adapted to the current font system. Please restart the application to activate the new settings.
Don't Quit
Quit

- In this window, select "Use." If you do not select "Use," MIDI communication between the SI-24 and Logic RPC Pro will not be possible.

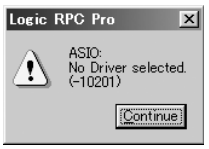
MEMO

If you accidentally selected "Don't Use," start up Logic RPC Pro, go to "Options" → "Settings" → "MIDI Interface Communication...", and check "Use OMS."

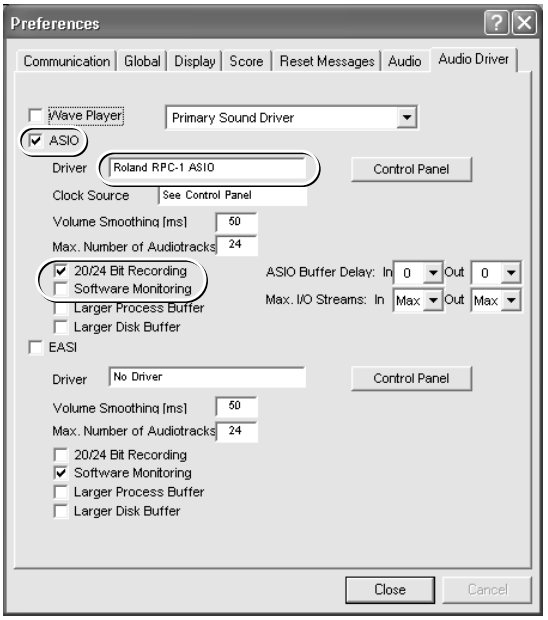
If you are using AppleTalk on the **Macintosh**, a dialog box will ask if you want to temporarily suspend the use of AppleTalk while Logic RPC Pro is running.
If AppleTalk access (e.g., file sharing) occurs while Logic RPC Pro is being used, the performance will be severely impaired. We recommend that you select "Turn It Off." If it is unlikely that access will occur, it is all right to select "Leave It On."

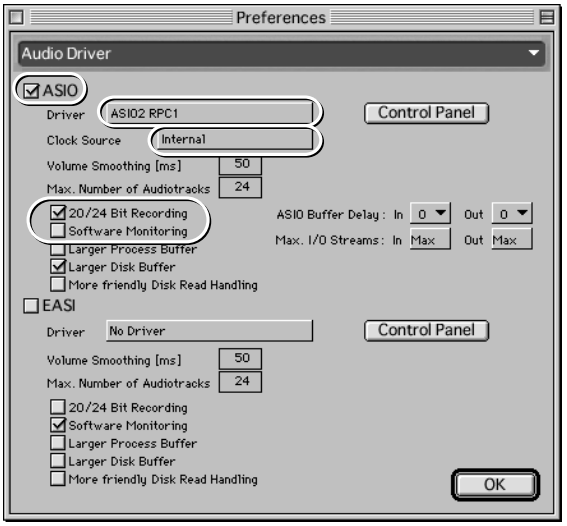
AppleTalk
OMS
AppleTalk is on. It is used for connecting your computer to network services, such as file servers and printers. But it can make MIDI communication less reliable.
If you choose Turn It Off, don't disconnect AppleTalk yet.
CAUTION: OMS may not turn off AppleTalk as reliably as Apple's system software.
Options
Leave It On
Turn It Off

4. A dialog box to the effect of "ASIO: No Driver selected." will appear. Click "Continue."



5. Choose “Audio” → “Audio hardware & drivers.” Make the following settings.





If the following dialog box appears while you are making settings, click “OK.”

6. Restart Logic RPC Pro.

Step 7: Installing the demo song

* *Use of the song data supplied with this product for any purpose other than private, personal enjoyment without the permission of the copyright holder is prohibited by law. Additionally, this data must not be copied, nor used in a secondary copyrighted work without the permission of the copyright holder.*

1. Insert the “Logic RPC Pro CD-ROM” into your CD-ROM drive.

2. A window will open. Copy the “Demosong” folder onto the hard disk of your computer. (Copy it to any suitable location.)

Listening to the demo song

1. Use the R-BUS cable to correctly connect the SI-24 to your computer.
(p. 6 “Step 2: Connecting your equipment”)

2. Check SI-24 and external audio equipment (Amplifiers/Speakers/Headphones) is properly connected.

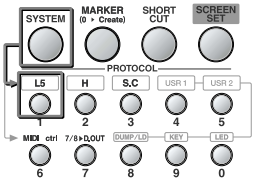
3. Turn on the power of your computer.

4. Turn on the power of the SI-24.

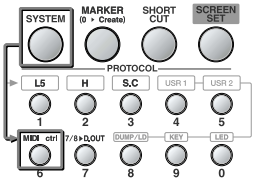
5. Turn on the power of the other audio equipment.

6. Make sure that the SI-24 is in Logic 5 mode, and that MIDI control is off.

Logic 5 mode.....In case [L5] is lit when [SYSTEM] is lit, Logic 5 mode is selected. Unless, hold [SYSTEM] down and press [L5] to change to Logic 5 mode.



MIDI control off.....In case [MIDI ctrl] is turned off when [SYSTEM] is lit, the status is off. Unless, hold [SYSTEM] down and press [MIDI ctrl] to turn the MIDI control off.



7. Start up Logic RPC Pro.

8. From the “File” menu, choose “Open.”

If you are asked “Save changes to ‘Untitled’ before closing?,” select either “Don’t save” or “Save.”

9. From the folder into which you installed the demo song, select “Logic RPC Pro Demo.”

10. When the demo song opens, press the SI-24’s [PLAY] button to play back the demo song.

If the demo song does not play, check the following points.

- Is the power of the SI-24 turned on?
- Are the SI-24 and computer (RPC-1) correctly connected via the R-BUS cable?
- When you press the SI-24’s [SYSTEM] button, is [L5] (1) lit and [MIDI ctrl] (6) dark?
- Is your audio system or headphones connected correctly?
- Is your audio system powered-on?
- The SI-24’s PHONES knob may be set to 0.
- Is the SI-24’s MASTER fader raised?
- Was the RPC-1 driver installed correctly?
- Are the RPC-1 settings correct?
- In Logic RPC Pro, are the “Audio hardware & drivers” and “Control Surface” settings correct?

Let's try operating Logic RPC Pro

Go ahead and use the SI-24 to control the demo song as described below.

Transport

[PLAY]: Play back
[STOP]: Stop playback. If you press this while stopped, you're returned to the beginning of the song.
[REW]: Move the song position line backward.
[FF]: Move the song position line forward.
[PAUSE]: Pause song playback.
Jog dial: Move the song position line.

MEMO [REW] / [FF] increase in speed each time they are pressed. To decrease the speed, press [REW] (during [FF]), or [FF] (during [REW]).

CH ASSIGN

Use CH ASSIGN to select the items that will be controlled. The correspondence between CH ASSIGN and the controlled items is shown below.
[INPUT]: Inputs
[OUTPUT]: Outputs
[BUS]: Buses
[Tr 1-12]: Tracks 1--12
[Tr 13-24]: Tracks 13--24

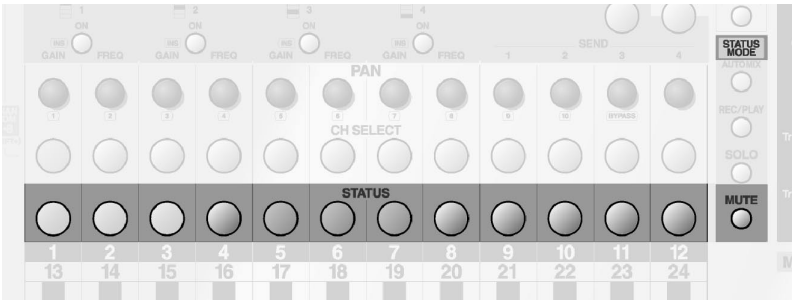
Faders 1--12

Control the faders of Logic.

STATUS buttons

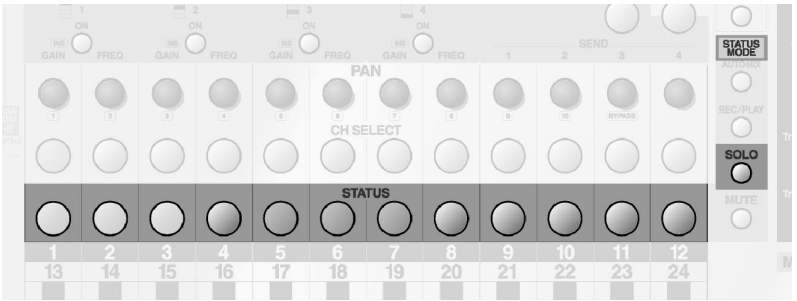
The STATUS buttons control MUTE / SOLO / REC / PLAY / AUTOMIX for each channel.

When STATUS MODE is MUTE



Switches channel muting on / off. The color of the STATUS button has the following significance.
Dark: mute is off
Lit red: mute on
Blinking red: muted by solo

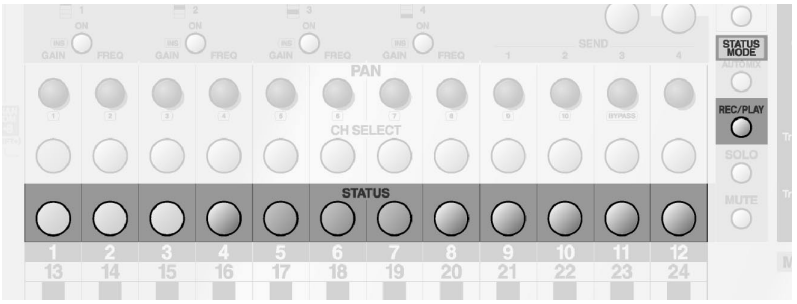
When STATUS MODE is SOLO



Switches the channel solo on / off. The color of the STATUS button has the following significance.

Dark: solo off
Lit red: solo on

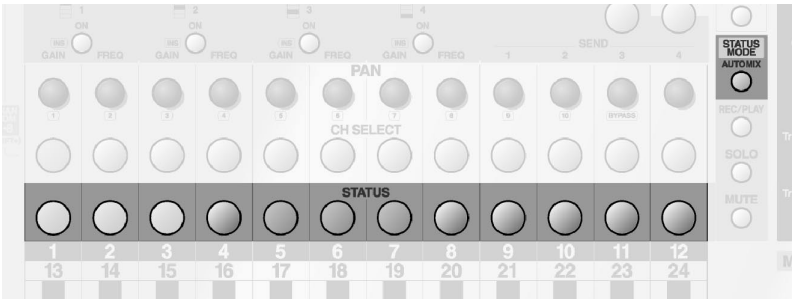
When STATUS MODE is REC/PLAY



Switches the channel between recording and playback modes. The color of the STATUS button has the following significance.

Dark: Playing
Blinking red: REC pause (Start recording when [REC] button is pressed)
Lit red: Recording

When STATUS MODE is AUTOMIX



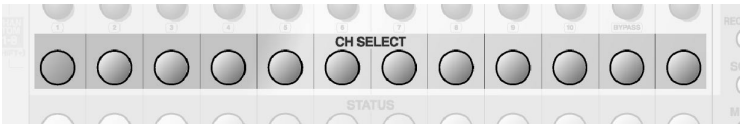
Switches the automation status of the channel. The color of the STATUS button has the following significance.

Dark: Off (automation off)
Lit green: Read (read automation)
Lit orange: now writing latch
Lit red: now writing

MEMO There are two modes in which automation can be written. These modes operate as follows.

Write: automation will be overwritten
Latch: Automation will be overwritten at the time of movement of faders / buttons / knobs etc.

CH SELECT buttons

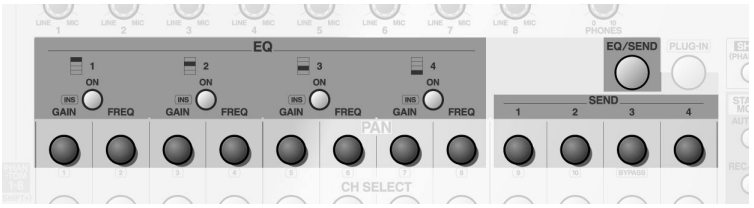


Use these to specify the channel whose EQ / send level you want to control. The selected button will light red.

PAN 1--12

Control the channel pan.

EQ/SEND button



When you press the EQ / SEND button so it lights in red, you can use the EQ GAIN 1--4 / EQ FREQ 1--4 / SEND 1--4 knobs to control the EQ / send levels of the channel selected by CH SELECT. On and Off of EQ for each tracks can be switched by pressing buttons for each tracks.

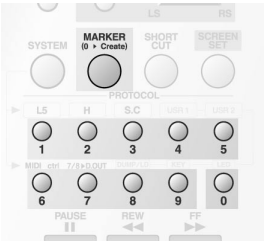
MEMO Use the mouse to assign EQ / SEND to the channel.

PLUG-IN button

When you press the PLUG-IN button so it lights in red, you can control plug-in parameters for the channel selected by CH SELECT. Use the [ON 1]--[ON 2] buttons to select the insert slot that you want to control. Knobs 1--10 control the parameters, knob 11 switches bypass on / off.

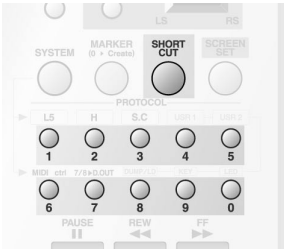
MEMO The plug-in parameters to which the SI-24's knobs 1--10 correspond will depend on the plug-in. By switching the plug-in window from Editor mode to Control mode, you can view the approximate correspondence. In most cases, the parameters from top to bottom correspond to knobs 1--10.

MARKER button



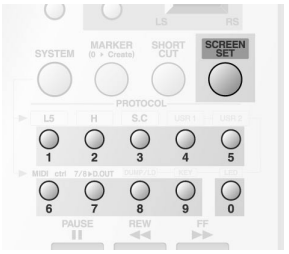
When you press the MARKER button so it lights in red, the [1]--[0] buttons will have the following functions.
[0]: Create a marker, [1]--[9]: Move to markers 1--9

SHORTCUT button



When you press the SHORTCUT button so it lights in red, the [1]--[0] buttons will execute the following commands.
[1]: Save, [2]: Redo, [3]: Copy, [4]: Paste, [5]: Delete,
[6]: MIDI Scrub, [7]: Cycle, [8]: Drop,
[9]: Volume automation data, [0]: Pan automation data

SCREEN SET button



When you press the SCREEN SET button so it lights in red, the [1]--[9] buttons can be used to recall screen sets. The [0] button will lock or unlock the screen set.

MEMO The Screen Set function stores information about how you have the windows arranged. Of these, the SI-24 lets you recall screen sets 1--9. If you lock the screen set, the contents of the screen set will not change even if you modify the arrangement of the windows.

Record and play back a guitar performance

1. Prepare a new song in Logic RPC Pro.

From the “File” menu, select “New” to open a new song.

2. Connect your guitar to the SI-24’s GUITAR (Hi-Z) jack.

MEMO If you have connected an external effects processor between your guitar and the SI-24, connect it to the conventional INPUT jack rather than the GUITAR (Hi-Z) jack.

3. Use the SI-24’s GAIN knob 8 to adjust the input level.

Turn the knob toward the left until the SI-24’s peak indicator does not light when you play your guitar most loudly.

4. Record your guitar performance on audio track 1 of Logic RPC Pro.

- In the Track Mixer window, use the input selector for audio track 1 to set the input to “Input 8.”
- Set the SI-24’s CH ASSIGN to [Tr 1-12], and set STATUS MODE to [REC / PLAY].
- When you press the SI-24’s [STATUS 1], a window will appear, allowing you to specify the location where the audio file will be saved. Specify a location for the audio file.

  MEMO It will be easier to manage your data if you create a folder for the audio files of each song.
- When you specify the location where the audio file will be saved, [STATUS 1] will blink red (recording-standby mode).

5. Record your guitar performance.

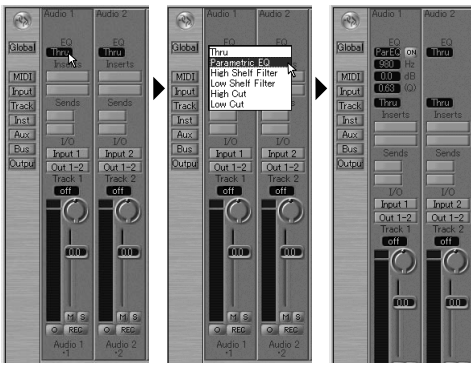
Press the SI-24’s [REC] button to begin recording. [STATUS 1] will change from blinking to solid red (record mode).
Press the SI-24’s [STOP] button to stop recording.

Apply EQ (equalizer) to a track

Apply EQ to the track you recorded

Inserting EQ

1. From the menu bar, choose “Windows” → “Open Track Mixer.”
2. Press and hold the mouse button (left button) over the EQ slot of the track, and the EQ pulldown menu will appear.
3. From the pulldown menu, select “Parametric EQ.”
4. A parametric EQ will be inserted.



Operate the EQ

5. Use the SI-24’s [CH SELECT] buttons to select the track (lights red), and press the [EQ/SEND] button to turn it on (lights red).
6. Press the SI-24’s [PLAY] button to play back the song.
   - Use knobs 1 and 2 to control the EQ Gain and Freq. (center frequency) of the parametric EQ, and notice how the EQ affects the sound of the track.
   - You can use the [EQ ON 1] button to switch the EQ on / off.

Using surround panning

Here’s how you can use surround panning to control the spatial position of the sound.

MEMO In order to obtain a surround effect, you will need (for example in the case of 5.1 channel surround) a playback system with six independent speakers, as shown below. Logic RPC Pro supports a variety of surround formats in addition to 5.1 channel surround. For details, refer to the owner’s manual included with Logic RPC Pro.

1. Select the track for which you want to use surround panning.

   Use the SI-24’s [CH SELECT] buttons to select the track for which you want to use surround panning (it will light red).

2. Select surround output for the SI-24’s tracks.

   Press the SI-24’s SURROUND PAN [ON] so it lights in red.
   The track output will change to “Surround,” and the surround pan window will appear.

3. Operate the surround panning.

   Press the SI-24’s [PLAY] button to play the song.
   As you operate the SI-24’s joystick, the sound of the track will move forward / backward and left / right.

MEMO Ultimately, Logic RPC Pro writes an audio file for each surround output. In order to convert these surround audio files to a conventional surround format, you will need to separately obtain surround encoder software.

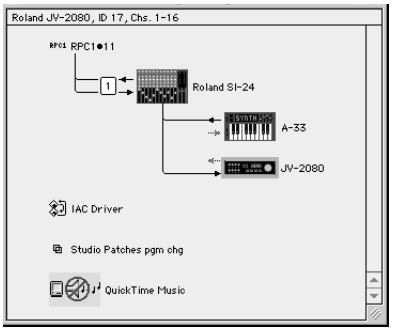
Connect and play a MIDI sound module / MIDI keyboard

Here's how you can connect a sound module to the SI-24's MIDI IN connector and a MIDI keyboard to the MIDI IN connector.

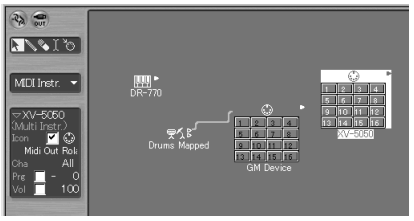
MEMO If you make the following settings in Logic, your MIDI system will be easier to understand.

For details, refer to the owner's manual included with Logic RPC Pro.

Example for Macintosh:
As appropriate for your system, make OMS settings as shown in the diagram. Set your sound module so that it does not use channel 1.



Example for Windows:
In the "MIDI Instr." layer, etc., of the Environment window, create an Instrument object (a non-multitimbral sound module), or a Multi Instrument object (a multitimbral sound module).



NOTE MIDI IN / OUT channel 1 is used to transfer control data between the SI-24 and Logic RPC Pro. For this reason, you may not use channel 1 for your MIDI keyboard or MIDI sound module.

Selecting MIDI tracks in the Arrange window

1. **Macintosh**: Tracks will be created with the names of the sound modules, according to the OMS settings you made, and you can select these.

Windows: **Hold down left button of mouse few seconds on the MIDI track to show the selection list. Select instrument you have added on environment window.**

Select a sound / patch (transmit a program change)

2. When you select a MIDI track, the parameters of the MIDI track will be displayed in the instrument parameter box located at the left of the Arrangement window.
3. In the "Prg" field, enter the program change number. (Drag the mouse, or double-click the mouse and then enter a number from the keyboard.)

MEMO For the correspondence between the program change numbers and the sound or patch, refer to the owner's manual of your sound module.

MEMO If you are using the **Macintosh** with an OMS-compatible sound module, click Prg and the patch name will be displayed.

4. In the "Cha" field, enter the MIDI OUT channel number (except 1). (Drag the mouse, or double-click the mouse and then enter a number from the keyboard.)

Play your keyboard to hear the sound

5. When you play your keyboard, the sound module will produce sound.

MEMO The channel of the MIDI data transmitted from MIDI OUT to the sound module will be the channel you specified in the instrument parameter box for that MIDI track.

MEMO If you do not hear sound from the sound module, check the following points.

- Is your MIDI sound module and / or MIDI keyboard powered-on?
- Are the SI-24 and your MIDI sound module / MIDI keyboard connected correctly?
- Your MIDI keyboard may be using MIDI channel 1 to transmit MIDI data.
- Is the MIDI track set to the correct MIDI channel?
- Are the sound and patch settings of the sound module appropriate?
- Are the MIDI filter settings of Logic RPC Pro appropriate?

Recording your performance (MIDI real-time recording)

6. Use the SI-24's jog dial and [FF]/[REW] buttons to move the song position line to the location where you want to record your performance.

7. Select a MIDI track, and press the SI-24's [REC] button to begin recording.

8. When you play your keyboard, the performance data will be recorded on the MIDI track.

Playing back the performance data

9. Use the SI-24's jog dial and [FF]/[REW] buttons to move the song position line to the location where you want to play back your performance.

10. Press the SI-24's [PLAY] button to play back the song.

Using the SI-24's DIGITAL IN

Here's how you can connect the SI-24's DIGITAL IN to a digital audio device with digital output, such as an electronic musical instrument, DAT recorder, or Roland VS series unit.

MEMO 2The SI-24's DIGITAL IN is sent to Logic's "Input 7-8."

Connect your digital device

1. Use a digital audio cable (coaxial) to connect the digital output jack of your digital audio device to the SI-24's DIGITAL IN.
2. Set the sampling frequency of your digital audio device to match the sampling frequency used by Logic RPC Pro.

Make settings on the SI-24 and in Logic.

1. Use "Audio" → "Sample Rate", to set the sampling frequency of Logic RPC Pro.
2. Press the SI-24's [DIGITAL IN] button. If the [DIGITAL IN] button lights red, things are working just fine.

MEMO **How the SI-24 handles word clock**

If **not using** the SI-24's DIGITAL IN:

The SI-24 will synchronize to the RPC-1's word clock.

If **using** the SI-24's DIGITAL IN:

The SI-24 will synchronize to the word clock of the digital device. In this case, the RPC-1 must be synchronized to the word clock of the digital device that is supplied from the SI-24 via R-BUS.

Change the RPC-1 settings.

Windows

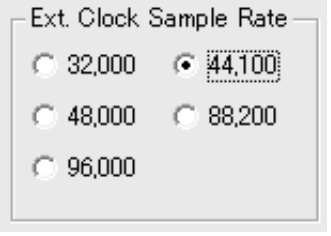
1. Access the RPC-1 Control Panel.

   For details on operation, refer to "RPC-1 control panel settings (Monitor mixer / patchbay settings)" (p. 14).

2. Select the "Hardware Settings" tab.
3. Change the "Master Clock" setting from "Int. Clock" (Internal Clock) to "Ext. Clock" (External Clock).

NOTE When you finish using the DIGITAL IN connection, change this setting back to "Int. Clock." If you leave this setting at "Ext. Clock" even after the device generating the clock signal has been disconnected from the SI-24 (or the digital connection has been disabled), the SI-24 will not operate correctly.

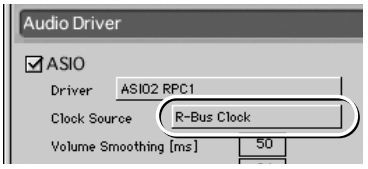
4. Select the same frequency as the output of the digital audio device.



5. Click [Done] to close the RPC-1 Control Panel.

Macintosh

1. Choose "Audio" → "Audio hardware & drivers."
2. Make the following settings.



Recording audio from DIGITAL IN to Logic RPC Pro

1. Set the input of the Logic RPC Pro track to either “Input 7” or “Input 8” (in the case of a monaural track), or to “Input 7-8” (in the case of a stereo track).
2. Set the SI-24’s STATUS MODE to [REC/PLAY], and press the [STATUS] button of the track that you want to record, putting it in recording-standby mode (blinking red).
3. Press the SI-24’s [REC] button to begin recording.

Automix in Logic RPC Pro

MEMO Volume and pan parameters can be recorded in Logic RPC Pro.

Make automix settings in Logic RPC Pro.

1. Set the SI-24’s STATUS MODE to [AUTOMIX] (lit red).
2. For the track on which you want to record fader and pan movements, set [STATUS] to “Write” (lit red)/”Latch” (lit orange).

MEMO Write and Latch differ in the following ways.

Write: The current fader / pan positions will be recorded as they are. This is convenient when you are recording automix for the first time, or when you want to re-do the automix from scratch.

Latch: Automix will be overwritten from the moment you operate the SI-24 until you stop playback or press [PAUSE]. This is convenient when you want to correct the existing automix.

Record fader/pan movements

3. Press the SI-24’s [PLAY] to play back the song.
4. When you operate the faders/pan, those movements will be recorded.
5. Press the SI-24’s [STOP] button to stop playback.

MEMO In Write mode when you stop playback, you will automatically switch to Latch mode.

MEMO You can view the recorded automix data as a graph. Make settings as follows.

1. In the Arrange window, use the mouse to select the track whose automix you want to view as a graph.
2. Turn the SI-24’s [SHORTCUT] button on (lit red).
   - When you press the [9] key, the volume curve will be displayed.
   - When you press the [0] key, the pan curve will be displayed.

Play back the fader/pan movements

6. Use the SI-24’s jog dial and [FF]/[REW] buttons to move to the location where you recorded the automix.
7. Press the SI-24’s [PLAY] button to play back the song.

The fader / pan positions (only in the screen) will move according to the automix data.

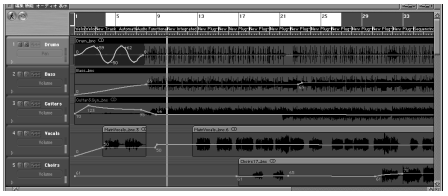
Writing a mix to an audio file

Logic RPC Pro is able to write each output (Output 1-2--Output 7-8) to an audio file in real time. This allows you to create a stereo file of the final mix, or to create audio files for each surround output.

MEMO Logic RPC Pro also has a “digital mixdown” function that combines multiple audio tracks into a single audio track. For details, refer to the owner’s manual included with Logic RPC Pro.

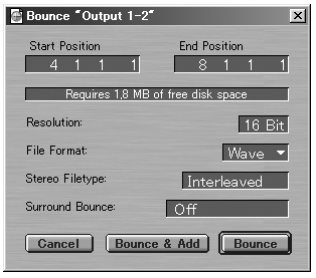
Specify the region that will be written as an audio file

1. Move the mouse pointer to the location in the bar ruler at which you want to begin bouncing the song. Then drag the mouse.



Make settings for writing the audio

2. From the menu bar, choose “Windows” → “Open Track Mixer.”
3. Press the SI-24’s CH ASSIGN [OUTPUT] to view Logic RPC Pro’s outputs.
4. Set the SI-24’s STATUS MODE to [REC/PLAY] (lit red).
5. Press the [STATUS] buttons of the outputs that you want to write as an audio file, and the Bounce window will appear.
6. Make settings for Resolution, File Format, Stereo File type, and Surround Bounce.

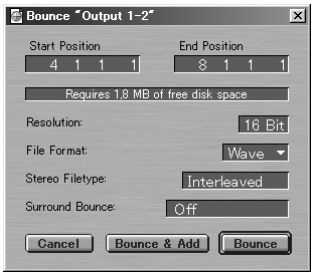


- Resolution: Specify the bit rate of the audio file. For example you would select 16-bit when creating a file for CD mastering, or 24-bit if you will be using the file for surround or with another application.
- File Format: Specify the format of the audio file. SDII is a format used by Digidesign’s Pro Tools, AIFF is the standard format used on the Macintosh, and Wave is the standard format used in Windows.
- Stereo Type: Specify whether stereo L and R will be divided to create two monaural files (Split), or combined in a single stereo file (Interleaved). This selection will not be available if you are writing to surround.
- Surround Bounce: Specify whether each surround output will be written to a file, or whether the file will be written as stereo. Turn this Off in the case of stereo.

Begin writing the audio

7. In the Bounce window, click the [Bounce] button.
8. You will be asked where you want to save the audio file(s), so specify the desired location.

   Writing to the audio file(s) will begin.



Applying an external effect

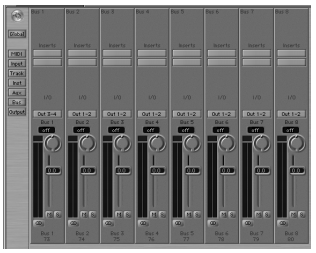
Here's how you can use an external effect with Logic RPC Pro. You will use a Logic RPC Pro bus as the external effect send, and send audio signals from the tracks for processing by the external effect.

Connect the external effects processor to the SI-24

1. Connect the SI-24's AUX 1 (AUX 2) to the input of your external effects processor.
2. Connect the output(s) of your external effects processor to the input(s) of the SI-24, and use the gain knob(s) to adjust the input gain.

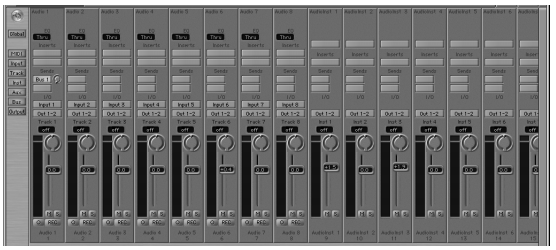
Set a Logic RPC Pro bus as the external effect send

3. From the menu bar, choose "Windows" → "Open Track Mixer."
4. Press the SI-24's CH ASSIGN [BUS] to view the buses of Logic RPC Pro.
5. Set the bus 1 (Return 1) output selector to "Output 3-4" ("Output 5-6").



Send the signal from each track to the external effect

6. Use the SI-24's CH ASSIGN to display the track to which you want to apply the external effect.
7. Press and hold the mouse on the send slot to access the pulldown menu.
8. From the pulldown menu, choose "Bus 1."
9. Use the SI-24's [CH SELECT] to select the track to which you want to apply the effect (lit red).



10. Turn the SI-24's [SEND/EQ] on (lit red), and use the SEND knob to adjust the amount of signal that is sent to the external effect.

MEMO If you have not made RPC-1 mixer settings so that you can monitor the SI-24's inputs "Step 4: Making RPC-1 settings" (p. 14), you will not be able to monitor the effect-on at this point. In this case, you can either use Logic RPC Pro's input section to monitor the inputs of the SI-24, or set Logic RPC Pro's audio tracks to REC mode for monitoring (software monitoring, direct monitoring).

MEMO Use the output level of your external effects processor to adjust the effect return level. Although it is possible to adjust the return level using the RPC-1 mixer, or at the Logic RPC Pro inputs, the level adjustment in this case will not affect what is recorded on the tracks, so you will need to re-adjust the level of the effect sound after recording it on the tracks.

MEMO The output of an external effect can be recorded on a track in the same way as when recording a conventional track. Alternatively, you can use a Logic RPC Pro input object to send the output of the external effect to an output object, and directly mix the external effect output and write it as an audio file, as described in "Writing a mix to an audio file" (p. 28).

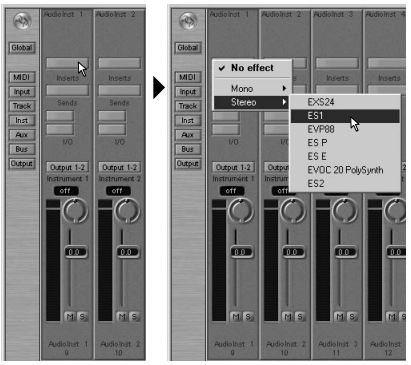
Using software synthesizers

Logic RPC Pro allows you to use Logic-compatible software synthesizers as well as VST and DXi compatible software synthesizers.

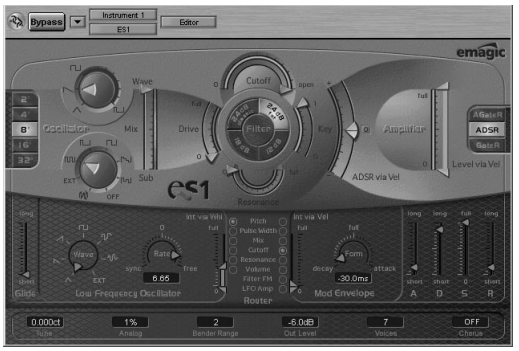
MEMO Logic RPC Pro includes software synthesizers made by Emagic corporation, and these can be used within the trial period after the first time you start up Logic RPC Pro. If you want to continue using one or more of these after the trial period has ended, you must purchase the relevant product.

Inserting a software synthesizer

1. In the SI-24's CH ASSIGN section, press [INST] ([SHIFT] + [INPUT]) to access Logic RPC Pro's audio instruments.
2. Press and hold the mouse on the audio instrument plug-in slot to access the pulldown menu.
3. Select a software synthesizer from the pulldown menu.



4. Window of soft synthesizer will appear.



Connect a MIDI keyboard to the SI-24 and play the software synthesizer

5. Connect your MIDI keyboard to the SI-24's MIDI IN connector.
6. In Logic RPC Pro's Arrange window, select the track for the audio instrument into which you inserted the software synthesizer.

7. Play your MIDI keyboard, and the software synthesizer will produce sound.

NOTE MIDI IN / OUT channels 1 are used for remote control of Logic RPC Pro. When you use MIDI IN / OUT, please use channels 2--16.

MEMO If you want to render your software synthesizer performance as an audio file, follow the steps described in "Writing the mix as an audio file," in this manual. If you want to render only the software synthesizer performance as an audio file, turn Solo on for that track.

Index

A

Audio driver 16
audio file 28
AUTOMIX 20
Automix 27

C

CH ASSIGN 19
CH SELECT 21
Clock 26
current setup 13

D

demo song 17–18
DIGITAL IN 26
Driver installation 7

E

EQ 23
EQ/SEND 21
equalizer 23
external effect 29

F

Faders 19
file cache 15
File Format 28

L

Latch 20, 27
Logic 5 mode 18
Logic RPC Pro 5

M

MARKER 22
Master Clock 26
MIDI control 18
MIDI keyboard 24
MIDI real-time recording 25
MIDI sound module 24
Monitor mixer 14
MUTE 19

O

OMS settings 12
Open the RPC-1 control panel 14

P

PAN 21
patch name 24
patchbay 14
PLUG-IN 21

R

REC/PLAY 20
Record and play back 22
Resolution 28
return level 29
RPC-1 control panel 14

S

SCREEN SET 22
SHORTCUT 22
software synthesizers 30
SOLO 20
STATUS 19
Stereo Type 28
Surround Bounce 28
surround panning 23

T

Transport 19

W

Write 20, 27

X

XSKey 5

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